

ADAW

10498 Monserrate St
Elk Grove, CA 95757-1765



ADAW

Arizona Desert Aire Waves

Vol 49 No 7

July 2024

CLUB MEETING SCHEDULE

SARC

Jul 3rd - 6:00 PM
Granite Reef Senior Center

AARC

Jul 11th - 7:00 PM
AZ Red Cross Bldg

YARC

Jul 4th - 7:00 PM
Prescott Rodeo Grounds

TBARC

Jul 18th - 7:00 PM
Arizona Christian University

CADXA

Jul 4th - 7:00 PM
Bethany Lutheran Church

ARA

Aug 22th - 7:30 PM
Denny's - Tempe & Zoom

MARCA

Jul 16th - 6:00 PM
Denny's Restaurant - Tempe

MARA

Jul 6th - 9:30 AM
Maricopa Public Library

AzRCCC

Sep 10th - 7:00 PM
AZ Red Cross Bldg

AMO

Jul 15th - 7:00 PM
Charles K Luster Bldg

SuperstitionARC

Jul 16th - 6:30 PM
Red Mtn Center, East Mesa

CHRC

Jul 13th - 9:00 AM
Tri-City Baptist Church

ANSR

Jul 18th - 7:30 PM
Via GoToMeeting

NADXA

Jul 2nd - 6:00 PM
Via Zoom

OVARC

Jul 19th - 7:00 PM
Pima Comm. College, NW
Campus

KARC

Jul 9th - 6:30 PM
New Hope Christian
Fellowship

TARA

Jul 12th - 9:00 AM
Payson Center for Success

QCWA-AZ Chapter

TBD
Various

CARL

TBD
Arizona Science Center

SunLife ARC

Every Monday - 10:00 AM
Via Zoom

WVARC

Jun 3rd - 7:00 PM
Shepherd of the Desert
Lutheran Church/Zoom

ATN (VOAR)

Postponed
www.whereby.com/atn1

ADAW Member Clubs

ARIZONA AMATEUR RADIO CLUB

The Arizona Amateur Radio Club meets on the **SECOND THURSDAY** of each month at 7:00 p.m. at the American Red Cross Building at 4747 N 22nd St. in Phoenix. Visitors are welcome.

President	Gary Hamman	K7GH	480.216.2665
Vice President	Steve Tolnai	W7WSV	480.390.4446
Secretary	Randy Gault	KJ7RCN	480.329.1879
Treasurer	Dave DeBolske	WA7DGY	480.249.8286
Activities Mgr	Ingrid Geissler	W7ISG	
Membership	Dave DeBolske	WA7DGY	480.249.8286

AARC c/o Dave DeBolske, WA7DGY, 2223 W Belmont Ave, #101, Phoenix, AZ 85021. DUES: \$15.00/YR, Prorated (\$18.00 Family, \$9.00 Student), MEMBERSHIP YEAR BEGINS FEB. 1.

SCOTTSDALE AMATEUR RADIO CLUB, INC.

The Scottsdale Amateur Radio Club meets the **FIRST WEDNESDAY** of each month at 6:00 p.m. in Room 8 at the Granite Reef Senior Center located at 1700 N Granite Reef Road (west side of Granite Reef Rd., 50 yards north of McDowell Rd. Parking on site) in Scottsdale. The club also holds a net every Tuesday night at 7:00 p.m. on the 147.78/.18 repeater.

President	James Wasson	N7ELL	n7ell@scottsdalearc.org
Vice President	Rick Aldom	W7STS	natecf@gmail.com
Secretary	Bruce Harmsen	KA9EYX	ka9eyx@scottsdalearc.org
Treasurer	Douglas Mitchell	W7ADD	w7add@scottsdalearc.org
Past President	Paul Finell	W7EFQ	w7efq@scottsdalearc.org
Board Members	Jim Dye	AG7AU	
At-Large	Scott Gillins	W2KP	
	Bill Kouchis	N9EIV	
	Ed Nickerson	WU7S	
	Gene Geller	K0VN	

SARC, P. O. Box 10878, Scottsdale, AZ 85271-0878. Phone: 602.735.3988. DUES: \$20.00/YR, (\$10.00/Add'l Family Member). Web Site: www.scottsdalearc.org

ARIZONA NEAR SPACE RESEARCH

The Arizona Near Space Research group meets the **THIRD THURSDAY** of the month at 7:30 p.m. via GoToMeeting. Technical meetings are held the first Monday of the month at 7:30 p.m. on GoToMeeting. Please contact an officer about joining our meetings.

President	Stephen Thomas	KE7TLS	iamgadget1@yahoo.com
Vice President	Clayton Jacobs	KJ6QJS	
Secretary	Steve Miller	W6SDM	
Treasurer	Bill McLean	K7WWM	bmcleanl@gmail.com

ANSR, PO Box 31003, Mesa, AZ 85275-1003. DUES: \$10.00/YR. Web Site: www.ansr.org

THUNDERBIRD AMATEUR RADIO CLUB

The Thunderbird Amateur Radio Club meets the **THIRD THURSDAY** of each month at 7:00 p.m. at Arizona Christian University, 59th Avenue and Greenway Road in Glendale. Meeting is in building 3600, Auditorium #1. See the website (<http://w7tbc.org>) for a map and more details.

President	Brandon McWhorter	KN6SEU	president@w7tbc.org
Vice President	Rick Tejera	K7TEJ	k7tej@w7tbc.org
Secretary	Don Cox	KK6NVN	bod@w7tbc.org
Treasurer	Joe Soublie	KG7COA	treasurer@w7tbc.org
Director 2023-24	Warren Gaspar	KC0GU	bod@w7tbc.org
Director 2023-25	Paul Veltman	W7OFG	bod@w7tbc.org
Director 2023-24	Mike Willmoth	KJ7OPD	bod@w7tbc.org
Director 2023-24	Bruce Kabana	WB7SRC	bod@w7tbc.org
Past President	Walter Reinert	NJ8G	nj8g@w7tbc.org
Station Trustee	Gary Duffield	WK7B	wk7b@w7tbc.org

For further information about the ThunderBird Amateur Radio Club, visit our website at <http://w7tbc.org>, send an e-mail to: info@w7tbc.org or call 602.938.8219. The Thunderbird Amateur Radio Club is a 501(c)(3) non-profit organization. Mailing address: PO Box 11394, Phoenix, AZ 85318-1394.

MARICOPA AMATEUR RADIO ASSOCIATION

The Maricopa Amateur Radio Association (MARA) meets the **FIRST SATURDAY** of each month at 9:00 a.m. at the Maricopa Public Library - Redwood Room, 18160 N Maya Angelou Drive in Maricopa.

President	Cary Gielniak	K7CFG	president@copahams.org
Vice President	Dave Hagan	KK7FWJ	vicepresident@copahams.org
Secretary	TBD		secretary@copahams.org
Treasurer	George Hogan	K7TGH	treasurer@copahams.org
PIO:	Steve Miller	W6SDM	pio@copahams.org

The Maricopa Amateur Radio Association is a 501(c)(3) non-profit organization. DUES: \$25.00/year individual, \$30.00/year family. Apply on-line at www.copahams.org. Mailing address: P O Box 951, Maricopa, AZ 85139

CHANDLER HAM RADIO CLUB

The Chandler HAM Radio Club (call sign N7CHN) meets the **SECOND SATURDAY** of each month at 9:00 AM at the Tri-City Baptist Church, Room 140, on the SW corner of Germann & Dobson Roads in Chandler. Our monthly club meetings are held in person. Visitors are welcome. Check the web site at chandlerhams.org for dates and presentation topics of club meeting. Weekly net is held every Thursday at 8:00 PM on 443.050+ PL100.

President	Dave Hoffman	KJ4RS	pres@chandlerhams.org
Vice President	Thomas James	KK7KHS	vp@chandlerhams.org
Secretary	Charles Fredrick	K5CYA	sec@chandlerhams.org
Treasurer	Ralph Arrendondo	K7RNJ	treas@chandlerhams.org

Web Page: <http://chandlerhams.org>. DUES: \$25/year primary member; \$10/year family member.



ADAW Member Clubs

BARRY M GOLDWATER, ARIZONA CHAPTER QUARTER CENTURY WIRELESS ASSOCIATION

The Barry M Goldwater Arizona Chapter of the QCWA includes amateurs from all over Arizona who have been licensed for 25 or more years. Meetings are currently held in Phoenix, Prescott, and Tucson. The Arizona Chapter meets on the air every Sunday morning. Please check the website <http://www.azqcwa.org/> for the time and frequency.

President	Tom Fagan	K7DF	president@azqcwa.org
Vice President	Open		
Secretary	Carl Foster	KB7AZ	secretary@azqcwa.org
Treasurer	Carl Foster	KB7AZ	treasurer@azqcwa.org

Web Site: <http://www.azqcwa.org> Email: info@gmail.com.
 DUES: \$7.00/year and current national QCWA membership.

MINGUS MOUNTAIN REPEATER GROUP

Meetings are held twice a year, an annual board meeting in Phoenix and a picnic meeting in Chino Valley. Dates, times, and locations are announced in the newsletter.

President	Bob Sitterley	K7POF	928.308.1164
Vice President	Tom Griswold	WN7E	
Secretary	Bud Winters	N7BUD	
Treasurer	Bob Sitterley	K7POF	928.636.2146
Board Members:	Gary Hamman	K7GH	
	Ken Rasback	KK7KEN	
	Tom Raczynowski	N7MMC	
	Larry Dorrell	KG7TTD	
	Ray Kolman	KI7COM	
	Steve Stock	WA0A	

Web Site: <http://www.k7mrg.org>. DUES: \$20.00 per year, due prior to July 1. MEMBERSHIP YEAR - July 1 - June 30.

KACHINA AMATEUR RADIO CLUB

The Kachina Amateur Radio Club meets the **SECOND TUESDAY** of each month at 6:30 PM at New Hope Christian Fellowship, 989 Cheney Ranch Loop (US260 & Cheney Ranch) in Show Low.

President	Kevin Parmenter	KG5Q	480.748.8182
Vice President	Bill Turley	KJ7GYH	923.536.2293
Secretary	Marie Mortensen	N7SKS	928.358.8748
Treasurer	Dennis Wilkes	W7DRW	928.739.4700
Board Members at Large:			
	Randy Beecroft	W7RJB	
	Jim Mortensen	W7AZY	
	Dennis Mills	WA7ZZT	

Mailing Address: Kachina Amateur Radio Club, P O Box 2996, Show Low, AZ 85902. Email: kachinainfo@drwilx.com Testing Info: White Mountain V.E. Team: VEtesting@cablone.net. Dues are \$20/yr for individual; \$30/yr for family. Membership is January 1 - December 31. Website: www.kachinaarc.org

ARIZONA REPEATER ASSOCIATION, INC

The Arizona Repeater Association general meeting is held the **FOURTH THURSDAY** of each month at 7:30 p.m. There are no meetings in July and December. The November meeting is held the Monday before Thanksgiving. Meetings are held at Denny's Restaurant, 1343 W Broadway in Tempe (Southeast corner of Priest Dr and Broadway Rd - <https://www.w7ara.org/mtg/Meetings.aspx>). Visitors are welcome. Come early for food and social time before the meeting starts. For further information about the ARA, including repeaters, site status, and the tech/board meeting, please visit our web site at www.w7ara.org.

President	Dennis Bietry, KE7EJF	ke7ejf@w7ara.net
Vice-President	Marty Dusenberry, KE7DGP	ke7dgp@w7ara.net
Treasurer	Cole Cunningham, AA7RD	aa7rd@w7ara.net
Secretary	Jim Hoff, N7XXX	n7xxx@w7ara.net

Board Members:

Dennis Campbell, AE7WU	ae7wu@w7ara.net
Mike Montalvo, KF7MBK	kf7mbk@w7ara.net
Brian McCarthy, AK7F	ak7f@w7ara.net
Lance Halle, KW7LH	kw7lh@w7ara.net
Joe Godfrey, AE7JG	ae7jg@w7ara.net
Joe Bakas, KE7WHE	ke7whe@w7ara.net
James Wasson, N7ELL	n7ell@w7ara.net
Bill Jackson, N9VJW	n9vjw@w7ara.net

For Membership Information, contact (Joe Godfrey, AE7JG membership@w7ara.net) Arizona Repeater Association, Inc, P. O. Box 35758, Phoenix, Arizona 85069-5758. To join or renew, please visit <http://w7ara.org/mbr/Membership.aspx>. DUES: \$20.00/yr. (Jan. 1 through Dec. 31) with a one-time initiation fee of \$10.00. Life and family memberships are available.

SUPERSTITION AMATEUR RADIO CLUB

The Superstition Amateur Radio Club meets at 7:00 PM on the **THIRD TUESDAY** of each month (except December) at the Charles K Luster Building, 640 N Mesa Drive in Mesa. VISITORS are always welcome. Board Meetings are held at 6:30 PM on the second Tuesday of each month (except December) at Black Bear Diner, 1809 E Baseline Road in Gilbert.

President	Steve Estes	KB7KWK	kb7kwk@superstitionarc.org
Vice President	David Gardner	KC7MAD	kc7mad@superstitionarc.org
Secretary	Scott Simeon	KI7KIM	ki7kim@superstitionarc.org
Treasurer	Bryan Hubbard	KF7DPC	kf7dpc@superstitionarc.org
Directors:	Brent Butler	W7FK	w7fk@superstitionarc.org
	Ed Taggard	K7EDT	k7edt@superstitionarc.org
	Matt Churchill	K7YEG	k7yeg@superstitionarc.org
	Eve Glantz	W7EVE	w7eve@superstitionarc.org
	John Jacques	KD8PC	kd8pcu@superstitionarc.org
	Larry Fort	AB7C	ab7c@superstitionarc.org

Superstition ARC, 5155 E Eagle Dr #21522, Mesa, AZ 85277.
 Web Sites: SuperstitionARC.org & superfest.superstitionarc.org.
 For more information, send email to: info@superstitionarc.org.
 The Superstition Amateur Radio Club, Inc. is a 501(c)(3) non-profit corporation.



ADAW Member Clubs

MARCA, Inc. / W7MOT

MARCA is an Arizona 501(c)(3) Non-Profit organization. The club call sign in W7MOT. Membership is open to all amateur radio enthusiasts. Meetings are held the **THIRD TUESDAY** of each month at 6:30 p.m. Denny's, 4403 S Rural Rd in Tempe (SE corner of Rural and US60) and via Zoom - login info on W7MOT.org. Monthly presentations cover a broad spectrum of interesting subjects. Visitors are welcome to attend. Come early (6:00 p.m.) for socializing. Repeater Problem Reports are encouraged. A Repeater Problem or Comment Reporting is available at <http://www.w7mot.org/index.php/repeaters/report-a-repeater-problem>. Site Managers and officers will take reports for any W7MOT repeater. Contacts are found on website. Club activities include providing voice, aprs, packet, DStar, and Fusion repeaters Central Arizona; ARRL Field Day, special interest groups in SDR, APRS, antennas, digital modes, and SBC applications. MARCA also has a net every Tuesday evening EXCEPT meeting nights at:00 PM on our South Mountain repeater, 443.050 MHz(100.0Hz tone).

President	Ray Vasquez	K4RMV	
Vice President			
Treasurer	Norm Johnson	AA7OO	480.278.2886
Secretary	Paul Bennett	KD7KDO	
Board Member	David Yee	N7AJR	
Trustee:	Norm Johnson	AA7OO	480.278.2886
Webmaster:	Norm Johnson	AA7OO	480.278.2886

MARCA, Inc., c/o Norm Johnson, 5756 S Wildrose, PO Box 85140, Mesa, Arizona 85212. Membership dues \$25 annually. See our website (<http://w7mot.org>) for more information about meeting schedules, membership, repeaters, library, and club activities.

CENTRAL ARIZONA DX ASSOCIATION

We have finally returned to hybrid in-person meetings which include online Zoom capabilities. The Central Arizona DX Association meets the **FIRST THURSDAY** each month at 7:00 p.m. at Bethany Lutheran Church, 4300 North 82nd Street in Scottsdale. We have a broad range of programs covering many aspects of amateur radio with an emphasis on DX-related. Visitors always welcome in-person or via Zoom. See www.cadxa.org/meetings.html for more information. Contact club president for zoom link.

President	John Jolly	N7NWL	wa7nwl@gmail.com
Vice President	Virgil Silhanek	K7VZ	k7vz@arrl.net
Secretary	Jim Charboneau	KC1BB	kc1bb.jim@gmail.com
Treasurer	Tom Boza	NE7X	ne7x@arrl.net
Immed. Past Pres.	Bill Poole	AA4Q	aa4q@arrl.net
Directors	Steve Thompson	N7TX	steve.n7tx@gmail.com
At-Large	Steve Protas	K7SP	sprotas@juno.com

CADXA, P.O. Box 24616, Tempe, AZ 85285-4646. Email: wa7nwl@gmail.com. Dues are \$25 per year (\$12.50 per additional family member). For more information, DXing resources, and a membership application, visit our website: www.cadxa.org.

YAVAPAI AMATEUR RADIO CLUB

The Yavapai Amateur Radio Club meets the **FIRST THURSDAY** of every month at 7:00 PM in the Freeman Building at the Prescott Rodeo Grounds located at 840 Rodeo Drive in Prescott (visit web site at www.w7yrc.org for directions and map). YARC is an ARRL Special Service Club dedicated to public service and emergency preparedness. The club serves the quad cities area of Prescott, Prescott Valley, Chino Valley/Paulden, and Dewey/Humboldt.

President	Ray Kolman	KD7RK	president@w7yrc.org
Vice-President	Steve Stock	WA0A	vice_president@w7yrc.org
Secretary	Tim Norton	K7PVY	secretary@w7yrc.org
Treasurer	Jane Lerette	K7ZHF	treasurer@w7yrc.org
Board Members	Byron Wilkinson	KK7BFL	kk7bfl@w7yrc.org
	Debbie Kolman	W1QT	w1qt@w7yrc.org
	Mike Schnell	NC7X	nc7x@w7yrc.org
	Bernie Sakowicz	W1RAD	w1rad@w7yrc.org
Past President	John Snedden	KT7P	kt7p@w7yrc.org

Yavapai Amateur Radio Club, P O Box 11994, Prescott, AZ 86304-1994. DUES: \$20.00/yr. Visit the website at www.w7yrc.org

K7ARC AZ RED CROSS COMMUNICATIONS CLUB

The Arizona Red Cross Communications Club meets the **SECOND TUESDAY** of each month at 7:00 PM at the Red Cross Building located at 4747 N 22nd Street in Phoenix. The group meets at emergency drills and at the call of the officers.

President	Charlie Zurenko	N2TFS
Vice President	Mark Steele	KI7RB
Secretary	Jerry Quenneville	K1GJQ
Treasurer	Saroj Gilber	KM6BQD
Past President	Frank Engstrom	KB7IQ

Arizona Red Cross Communications Club - K7ARC, 4747 N 22nd Street, Phoenix, AZ 85016. Web Site: K7ARC.org Email: info@k7arc.org

NORTHERN ARIZONA DX ASSOCIATION

The Northern Arizona DX Association is a small, but very active club in Flagstaff. We hold our monthly meetings the **FIRST TUESDAY** of each month via ZOOM at 6:00 p.m. MST (01:00 UTC). A ZOOM ragchew is held every Wednesday at 9:00 a.m. Visitors are welcome. Please e-mail president@nadxa.com to receive the ZOOM invite and password.

President	Lou Arminio, W7KFT	president@nadxa.com
Vice-President	Bob Wertz, NF7E	vicepresident@nadxa.com
Secretary	Keith Schlothman, KR7RK	secretary@nadxa.com
Treasurer	Ken Held, W7SS	treasurer@nadxa.com

Website: www.nadxa.com. If you are interested in joining us, please read through our Bylaws (available on the website) and attend a club meeting or breakfast. A sponsor will be assigned to get you acquainted with our merry band



ADAW Member Clubs

CENTER FOR AMATEUR RADIO LEARNING

The Center for Amateur Radio Learning maintains & operates W7ASC aka "The Harkins Ham Shack." It is open to all who visit Arizona Science Center (ASC) in Downtown Phoenix. The station is located on the third floor of ASC in the "My Digital World" gallery.

ASC is open daily, 10:30 a.m. - 4:00 p.m. The ham shack hours are manned by our volunteer staff who are typically in the shack until at least 2:00 p.m. You can also learn more about CARL by searching our W7ASC callsign on QRZ.com.

President	Jack Landon	KD7ROB
Secretary	Paul Siken	KI7LW
Treasurer	Karen McConaghy	NO7D
Station Engineer	Rusty Kinner	WA8ZID
Board Members:		
	Tom Salt, AD7PM	At Large
	John O'Neal, K7JP	Teacher Packets
	Jerry Quenneville, K1GJQ	ARCA Delegate
	Sam Marshall, N7INV	Scheduling

AMATEUR TELEVISION NETWORK

The Amateur Television Network (ATN) promotes video operation on linked repeaters and mesh networks. Business meetings are in January and July. Monthly social meetings are postponed due to the pandemic. Join us online at www.whereby.com/atn1 on Sundays at 7:00 PM AZ time and Tuesdays at 8:30 PM AZ time for our ATV Nets. It's a lot of fun!

If you can, check in with RF on ATV, FM or DMR...

ATV Repeater Inputs: 434 MHz AM/DVB-T and 2441.5 MHz FM
 ATV Repeater Outputs: Phoenix - 1253.25 and 5910 MHz,
 Mesa - 421.25 and 1289.25 MHz, Tucson - 1277.25 MHz
 FM Repeater Outputs: Phoenix - 448.400 MHz PL 100.0,
 Mesa - 445.175 MHz PL 100.0, Tucson - 445.225 MHz PL 103.5
 DMR Talk Groups: 9410 "ATV Talk" and 31024 "ATN"

We also stream 24x7 on www.youtube.com/amateurtelevisionnetwork and on YouTube at W7ATN-Arizona Live and W7ATN-Mesa Live.

President	Ed Olague	K5OLA	602.885.7725
Vice President	Rod Fritz	WB9KMO	480.322.5149
Sec/Treasurer	Lee Weitzel	K0CCU	602.439.4840
Repeater Trustee	Kevin Jacobson	AD7OI	602.694.0851
Webmaster	Roland Hoffman	KC6JPG	562.577.1381

ATN-AZ, 4134 W. Danbury Dr. Glendale, AZ 85308. Full membership dues are \$75 annually. Affiliate membership is free. Website: www.atn-tv.org. Email: wb9kmo@gmail.com

WEST VALLEY AMATEUR RADIO CLUB

The West Valley Amateur Radio Club, an Arizona 501(c)(3) non-profit corporation, has been providing emergency communications since 1961. Meetings are the **FIRST MONDAY** of each month at 7:00 PM at Shepherd of the Desert Lutheran Church, 11025 N 111th Avenue in Sun City. The board meets on the third Wednesday of the month at 7:00 PM on Zoom. A weekly breakfast is held on Thursdays at Lou's Tivoli Gardens, 12535 W Bell Rd at 7:00 AM. Club nets are held on 147.300 (tone 162.2) at 9:00 AM and at 8:00 PM. Please check our website (<https://westvalleyarc.com>) for other events and information.

President	Bob Runke	AB7RR	cowboybob13@cox.net
Vice-President	Josh Cavender	KE7WIL	ke7wil@gmail.com
Secretary	April Kramer	KI7GFJ	kramer5335@gmail.com
Treasurer	James Clancy	KG7DHO	james.clancy.wa@gmail.com
Directors:	Matt Browning	KK7CKE	matt@echhvac.com
	Rolf Nestingen	KG0KM	bignorsk@hotmail.com
	Jim Cummins	N7YO	n7yo.jim@gmail.com
	Mike Stevens	K7BLT	k7bltmike@gmail.com

Committees:			
Membership	Krissy Larson	KI7GJJ	krissyjlarson@gmail.com
Tech Chairman	Jim Cummins	N7YO	
Equip. Donations & Sales	George Forsyth	AA7GS	aa7gs1@gmail.com

WVARC, P O Box 1573, Sun City, AZ 85372-1573. DUES: \$15.00/YR for family residing at the same address. MEMBERSHIP YEAR - January - December. Web Site: <http://westvalleyarc.com>. Email: suncitywvarc@gmail.com

SUNLIFE AMATEUR RADIO CLUB

The Sunlife Amateur Radio Club is a Snowbird Club and meets **EVERY MONDAY** at 10:00 AM from October through the end of April at the Greenfield Village RV Park, 111 S Green field Road in Mesa. We also gather every Thursday morning at Red Mountain Park.

Nets:

DMR Net: Monday at 2:00 UTC, Talk Group 31041
 20 M Net: Monday, Wednesday, & Friday, 14.329 Mhz SSB 19:30 p.m. UTC (18:30 a.m. UTC during daylight savings time).
 10 M Net: Tuesday & Thursday, 28.329 Mhz, SSB. 02:00 UTC. Also cross banded to KD8PC-L and AllStar 51772 on Tuesday nights.
 Venture Out: 2 M Net: Monday, Wednesday, & Friday, 20:00 UTC 146.460 MHz FM simplex

President	Jim Steinmetz, WX7G	steinmetzjb@aol.com
Vice President	Stephen Wagner, W7WHB	w7whb@arrl.net
Secretary	Roy Gager, KD7WRC	roygager@mac.com
Treasurer	Cheri Goforth, N7WEM	treasurer.sunlifearc@gmail.com

Membership dues are \$10.00/year. If you would like to be a member, visit the website at <https://www.sunlifearc.org/>



ADAW Member Clubs

AMO - ARIZONA MESH ORGANIZATION

The Arizona Mesh Organization (AMO) is a 501(c)(3) amateur radio club. Our goals and purpose is to promote and support ARDEN MESH Networks throughout the state of Arizona, to explore new technologies, to promote the education of what amateur radio mesh is, to support and exchange information with mesh users throughout the state, to further the technology of mesh radio itself, to support emergency and public service communications, and (of course) to have fun along the way. **Board Meetings** are held the second Monday of each month on Zoom at 7:00 PM until approx. 9:00 PM. **General Meetings** are the **THIRD MONDAY** of each month at the Charles K. Luster Building, 640 N Mesa Drive in Mesa (a half mile north of W University Drive, west side of N Mesa Drive) and on Zoom. Doors open at 6:30; meetings are 7:00 PM until approx. 9:00 PM. **AMO Weekly Nets** are held the other Mondays at 7:00 PM on Zoom. If you need the Zoom link, please contact the AMO President at least 2 hours before the meeting at president@arizonamesh.org.

President: Gary Hinton, AC7R president@arizonamesh.org
Vice-President: Steve Estes, KB7KWK vicepresident@arizonamesh.org
Treasurer: Scott Gillins, W2KP treasurer@arizonamesh.org
Secretary: secretary@arizonamesh.org
Board of Directors
Tom Cloonan, NL7FQ nl7fq@arizonamesh.org
Michael Bailey, KI7LXY ki7lxy@arizonamesh.org
Charles Whitlatch, W7VF wyvf@arizonamesh.org
Bob Howard, W8RH w8rh@arizonamesh.org
Rod Fritz, WB9KMO wb9kmo@arizonamesh.org

Web Site: <https://arizonamesh.org/> Email: info@arizonamesh.org
DUES: \$25.00 per year. Membership year runs January 1 - December 31.

ARIZONA OUTLAWS CONTEST CLUB

The Arizona Outlaws Contest Club ("AOCC") does not hold routine meetings. At least once per year, we hold the AOCC Roundup, a catered event that rotates each year between Phoenix, Tucson, and Prescott. All members have access to an email reflector. Members post comments, questions, and their contest scores. All licensed amateur radio operators interested in amateur radio contesting (also known internationally as "radiosport") are eligible for membership. For more information, see our website, www.arizonaoutlaws.net.

President: Mike Fulcher, KC7V mikekc7v@gmail.com
V. P. North Area: Ray Benny, N6VR n6vr@arrl.net
V.P Central Area: Chuck Zanella, KF7U Chuck_KF7U@outlook.com
V.P. South Area: Owen Watson, AK7W ak7w.owen@gmail.com
Secretary/Treasurer: Larry Reader, KE2VB larry.ke2vb@gmail.com

Arizona Outlaws Contest Club, 1099 N Olympic Pl, Tucson, AZ 85737. Dues are \$10 per year. For more information, contesting resources, and a membership application, visit our website: www.arizonaoutlaws.net.

ORO VALLEY AMATEUR RADIO CLUB

The Oro Valley Amateur Radio Club meets the **THIRD FRIDAY** of each month at 7:00 p.m. at Northwest Campus, Pima Community College, 7600 N Shannon Road in Tucson. (Monthly meetings are live-streamed.) Visitors are welcome. Board Meetings are held the second Tuesday of every month at 7:00 p.m. via ZOOM. Check the web site at www.tucsonhamradio.org for dates.

President: Steve Wood W1SR w1sr@arrl.net
Vice-President: David Beauchesne AK2L ak2l@arrl.net
Secretary: Logan Zintmaster KE7AZ lrahnz@garlic.com
Treasurer: Beverley Hester WB7BEV wb7bev@cox.net
Board Member: Fred Bresani W2HZ w2hz@verizon.net
Board Member: Joe Silvasi KC2J kc2j@arrl.net
Board Member: Wally Wilson W7JCP wally.wilson2011@gmail.com
Board Member: Darren Wright WB1LOV wb1lov@yahoo.com
Board Member: Gerry Rohewski KK7HTF grojewski@comcast.net

DUES: \$25.00/year (Household members living at same address \$15.00 each additional). To join or for additional information, visit website at <http://www.tucsonhamradio.org/>.

WEST VALLEY HAM SHACK

The West Valley Ham Shack (WVHS) is a non-profit organization dedicated to preserving the history of radio, electronics, and amateur radio. WVHS is in a building with all sorts of facilities and resources for amateur radio and electronics hobbyists. These resources include: a museum, workshop, library, and fully operational radio station. Ham radio and electronics courses are periodically given. Electronic components, radio parts, and test gear are also available, and ham radio exams are conducted monthly. The shack also has an extensive work bench all the trimmings needed for work on equipment and accessories. Lifetime memberships are \$10.00. Drop by to see this wonderful facility.

President: Fred Peters, K7WFP tpeters5227@gmail.com
Vice President: Gary Franklin, K8BKB franklin6209@att.net
Treasurer: Alven Brite, WE7L alvenbrite@gmail.com
Founder: Dick Stout, KE7RD ke7rd@webtv.net
Director: Krissy Larson, KI7GJJ krissyjlarson@gmail.com
Director: Pat Regan, KB7OM kb7om@yahoo.com
Director: Greg Lahaie, K7YDL gregk7ydl@gmail.com
Director: Bob Manning, KF5NOX private
Director: Bill Powell, W9WRP w9wrp@yahoo.com
ADAW Editor: Bill Powell, W9WRP w9wrp@yahoo.com

Web Page: <https://www.westvalleyhamshack.com>. Lifetime membership fee: \$10.00. Address: 11115 W. Nevada Ave, Youngtown, AZ 85363. Phone: (623) 248-5174
Email: westvalleyhamshack@gmail.com

ADAW Member Clubs

TONTO AMATEUR RADIO ASSOCIATION

The Tonto Amateur Radio Assoc. (TARA) meets on the **SECOND SATURDAY** of every month at 9:00 a.m. at the Payson Center for Success, 514 Wade Ln. in Payson. See n7tar.org for details and a map link.

President Rick Lovdahl, KJ7ROX rick.lovdahl@gmail.com
 Vice President Patrick McDonald, KD6PZB arcs43@aol.com
 Secretary John Swenson, W7VNO w7vno@arrl.net
 Treasurer Danette Key, KI7VEY yaya_key@yahoo.com
 Repeater Trustee Bruce Johnson, N7DDT injectionresource@gmail.com
 Trustee at Large Bob Mell, KN7ZTF robert.mell@suddenlink.net
 Trustee at Large Todd Longfellow, N7TWL todd@n7twl.com
 Webmaster Woody Phillips, KJ7YYI kj7yyi@arrl.net
 PIO Ron Acosta, K9PAZ ronacosta@mac.com

For further information and calendar of events, please see our website at n7tar.org DUES: \$35.00/year (spouses included)

Please be sure your club has your current email address.



ADAW

The *Arizona Desert Aire Waves* is published monthly and is the official news media of the member clubs. All news items, articles, and inquiries should be submitted to each club's editor. Any information and opinions printed herein are those of the contributors and are not necessarily those of the member clubs or ADAW Staff. Full permission is granted to reprint or quote from this publication providing credit is given to the individual contributor and the ADAW. ALL RIGHTS RESERVED. *Deadline is 10th of the month*

ADAW Staff

PUBLISHER / MANAGING EDITOR

Christine Kesauer	N7PVL	adaw@adaw.org
AARCEDITOR		
Gary Hamman	K7GH	480.216.2665
AMOEDITOR		
Robert Fridel	N3BZ	610.577.6907
ANSREEDITOR		
Steve Miller	W6SDM	602.290.1603
AOCCEEDITOR		
Mike Fulcher	KC7V	480.522.4332
ARAEDITOR		
Joe Bakas	KE7WHE	adaweditor@w7ara.net
ATNEEDITOR		
Rod Fritz	WB9KMO	wb9kmo@gmail.com
CADXAEDITOR		
Steve Thompson	N7TX	steven7tx@gmail.com
CARLEEDITOR		
Sam Marshall	N7INV	pdlstl@aol.com
CHRCEDITOR		
Debbi Smith	KJ7MIQ	kj7miq@gmail.com
K7ARC - AzRCCCEEDITOR		
Charlie Zurenko	N2TFS	chazur@icloud.com
KARCEDITOR		
Dawn Woodworth	KF7WHH	dmk_kandy@yahoo.com
MARAEDITOR		
Cary Gielniak	K7CFG	cary.gielniak@gmail.com
MARCAEDITOR		
Clark Jones	KI7TU	ki7tu@cox.net
MMRGEDITOR		
Bob Sitterley	K7POF	k7pof@yahoo.com
NADXAEDITOR		
Ron Gerlak	KG7OH	480.356.3663
OVARCEEDITOR		
Steve Wood	W1SR	nauset2222@yahoo.com
QCWAEDITOR		
Carl Foster	KB7AZ	carlfoster@cactuscomm.net
SARCEEDITOR		
Gene Geller	K0VN	612.670.9358
SunlifeEDITOR		
Vacant		
SuperstitionARCEEDITOR		
Larry Kuck	WB7C	ellsworth@us60.us
TARAEDITOR		
Rick Lovdahl	KJ7ROX	rick.lovdahl@gmail.com
TBARCEEDITOR		
Bruce Kabana	WB7SRC	cjeep82@cox.net
WVARCEEDITOR		
Bob Conlin	KJ7JNR	tallbob14@gmail.com
WVHSEEDITOR		
Bill Powell	W9WRP	w9wrp@yahoo.com
YARCEEDITOR		
John Snedden	KT7P	kt7p19@gmail.com

ADAWEMAIL
ADAWWEBSITE

adaw@adaw.org
www.adaw.org

ADAW

From the Editor's Desk

Summer is here - in full force it would appear. Temperatures are rising and it's time to take our activities inside or up north where it's cooler. That being said, what better place to enjoy an amateur radio event than the Flagstaff Hamfest?

The Flagstaff Hamfest is returning this year to the Sinagua Middle School on E Butler Avenue on July 20th. This is the event's second year and will have several changes coming your way. There will be a larger area set up for tailgating and a shuttle to take you between the indoor vendors and the swap meet. Several workshops and meetings, license exams, food and drinks, and more will be offered - all in air-conditioned comfort. A Friday evening no-host dinner is scheduled at the Flagstaff westside Sizzler from 5:00 - 7:00 p.m. if you'd like to attend. Discounts for a local hotel are available this year also making your stay a bit more affordable. Don't miss this one! For more information, visit the event web site at www.flagstaffhamfest.org

This month we are pleased to welcome a new club to the pages of the Arizona Desert Aire Waves. The Tonto Amateur Radio Association has decided to join ADAW to publish a newsletter column for their members, and to share it with all the ADAW family of clubs' members. It will be wonderful to read all about the club and their activities.

The Tonto Amateur Radio Association (TARA) is located in Payson, which is very near the geographic center of Arizona and surrounded by the Tonto National Forest. The group will be holding their annual swapfest on October 5 this year. If you've never been to Payson, what better way is there than to attend an amateur radio event and enjoy the beauty of the mountains? See the Hamfest Calendar in the next column for more info.

Hope to see some of you in Flagstaff.

73 until next month - Stay cool!

Christine, N7PVL

ADAW



Hamfest Calendar

20 July 2024 - **Flagstaff Hamfest** - hosted by the Northern Arizona DX Association and sponsored by the Amateur Radio Council of Arizona will be held at Sinagua Middle School, 3950 E Butler in Flagstaff. Hours are 7:00 AM to 3:00 PM. Grand and Hourly Prize Drawings, Tailgating, Lunch On-Site, Presentations, Inside Vendors, VE Exams. Talk-In - 146.98 (-) Tone 162.2. Visit the website at FlagstaffHamfest.org or NADXA.com/Events/Hamfest.org for all the details. Or send an email to: info@flagstaffhamfest.org

7 September 2024 - **RCARC Swap Meet/Amateur Radio Event** - hosted by the Rim Country Amateur Radio Club will be held at the All Seasons Lodge/Barn, 2365 Bison Ranch Trail in Overgaard. Hours are 8:00 AM to 1:00 PM - Set up at 7:00 AM Free Admission and Swap Meet Spaces. Covered and Uncovered Space Available. Raffle & Door Prizes, VE Testing (email contact person), and Radio Communication Demonstrations and Operations. Talk-In - 146.8MHz, 162.2kHz Tone For more information visit the Web Site W7RIM.COM or email Bill Hansen at w7rimradio@gmail.com

14 September 224 - **White Mountain Hamfest** - Will be held at the Show Low Masonic White River Lodge #62, 741 E Whipple Street in Show Low. Setup starts at 6:00 AM. Gates open at 7:00 AM. Talk-in 146.76 -.6 MHz, P/L 110.9. Watch for more details.

5 October 2024 - **TARA Swapfest** - hosted by the Tonto Amateur Radio Club will be held at the Ponderosa Bible Church, 1800 Beeline Highway in Payson. Hours are 8:00 AM until Noon. A Social BBQ/Potluck will follow the event. Contact Rick Lovdahl at rick.lovdahl@gmail.com for more information.

5 October 2024 - **RST Fall Hamfest** - hosted by the Radio Society of Tucson will be held at Calvary Tucson Church, 8711 E Speedway in Tucson. Hours are 7:00 AM - 11:00 AM with seller set up starting at 6:00 AM. Admission and Parking are Free. Seller/Vendor spaces are \$10.00 per parking space. Seller spaces are shaded. Morning snacks provided by Scout Troop 157 and Pack 705. For map and up-to-date information, visit the web site at <http://www.k7rst.org>

2 November 2024 - **HARKfest** - hosted by the Hassayampa Amateur Radio Klub (HARK) will be held at Redeemer Lutheran Church Annex, 470 Rose Lane in Wickenburg. Hours are 8:00 AM until Noon. Watch for more details.

7 December 2024 - **Superstition Superfest** - hosted by the Superstition Amateur Radio Club will be held at Mesa Community College, US60 & Dobson Rd in Mesa. Hours are 7:00 AM until 2:00 PM. Watch for more details.



AOCC Continued from Previous Column

In N1MM, you can tailor the spots. You can also see multipliers only or multipliers plus unworked callsigns on the band you are on. There are keyboard techniques you can use to move through the multipliers and unworked QSOs quickly to determine if you can hear them, then work them.

Our members include elite testers who have operated from many DXCC entities around the globe as well as beginners wanting to learn more and who may submit a score of only a few QSOs. We encourage all stations, big or small, to get on and participate in contests and make contacts. There are excellent resources among club members and on our club website for contesting help.

AOCC accomplishments –

AOCC Finishes #2 USA in the 2023 ARRL Sweepstakes (CW+SSB). This is our best placement so far in this contest.

AOCC has finished #6 USA Club (#13 World of 78 Clubs) in the latest CQWPX RTTY Contest.

Please visit our website at www.arizonaoutlaws.net. We welcome any radio amateur with an interest in contesting – from cap gun to big gun – to join us.

See www.arizonaoutlaws.net/joinus.html for membership information. We welcome all who wish to join the ham contesting/radiosport world.

Keep posting your scores.

73,
Mike KC7V

ADAW

CQWPXCW contest was a great experience at the end of May. Fabulous conditions Friday and Saturday, and okay on Sunday. 20m was open all night Friday night and 15m opened before 5am on Saturday morning. That was fun. AOCC's club score will be the highest of any contest the club has competed in. Can't wait to see the results. The ARRL June VHF contest will be over by the time you see this, but the CQ VHF is in mid-July so get on and make some QSOs. Make sure you read the rules because the bands available to operate are different from the ARRL.

Effective June 1, 2024, we are retiring the AOCC ladder. We will calculate award winners for this past year. Too many have retired from the ladder to make it worthwhile to continue and a change after 15 years is due.

I will work with our board to create a new program that will begin September 1 this year so that we include all the major contests. Our plan is to offer AOCC swag in some manner. I can tell you that participation is rewarded but more points will be earned based on the number of QSOs you submit for our selected contests. More details will be forthcoming once we get it all figured out.

No one stepped up to volunteer for an AOCC board position. I guess it means the officers will remain the same for the 2024-2025 AOCC year. I will step down after this year for a break so someone will need to step up. I will provide details on what needs to be done. Steve, KJ5T, is our new webmaster and John, N1JM, stepped up to take over as Secretary/Treasurer.

Led by Chuck, KF7U, AOCC has moved our reflector to groups.io. This gives us more features such as attachments. If you are an AOCC member, and have not received an invite, reach out to Chuck at Chuck_KF7U@outlook.com

As a reminder, you can find contest dates and links to rules by looking at www.contestcalendar.com. You can also check to see what contest dxpeditions will be on for DX contests at <https://www.ng3k.com/>.

Contest Tip this month – S&P (Search and Pounce).

Tune through the band looking for running stations and contact any you can find that you have not already worked. Practicing this technique can help you work stations quickly. Most contests have an assisted category that allows you to use spots. I suspect most contest loggers operate the same way.

Continued Next Column



**National Ice Cream Day
July 20th**

License Testing Information

When you are ready to take an exam for an Amateur Radio license, there are Volunteer Examiners available to assist you. Each Applicant will need to bring a picture ID (some test sessions require two forms of identification). An FCC-issued FRN number is required. If you do not have an FCC-issued FRN number, visit <https://apps.fcc.gov/coresWeb/publicHome.do> to obtain one. If you are upgrading your class of license, be sure to bring the original (and a copy) of your license and/or Certificate of Successful Completion of Examination (C.S.C.E.). There may be an exam fee required.

PLEASE NOTE: Dates, times, locations, fees may change. Arrive promptly at time listed. Fees may vary and exact change or check is required at most sessions. Call test session contact to confirm information. Walk-ins are permitted unless otherwise specified.

July Test Sessions

Jul 1st - WVARC -- 6:00 PM

Shepherd of the Desert Lutheran Church-Walton Hall
11025 N 111th Ave, Sun City
Contact - David Morrill 623.680.5011
No Walk-Ins / Register or Call Aheadby Friday

Jul 6th - Chandler Ham Radio Club -- 10:00 AM

Tri-City Baptist Church, 2211 Germann Rd, Chandler
Bldg D, Room 170
Contact - Byron Garranbrant ve@chandlerhams.org
Walk-Ins Allowed / Registration on Website
Register at: chandlerhams.org/testing/

Jul 8th - MCC ARC KM7CC & East Valley VE Group -- 6:00 PM

Mesa Community College Bldg TC50, 1833 W Southern Ave, Mesa
Contact - Ray Vasquez 602.363.4207

Jul 8th- Radio Society of Tucson -- 7:00 PM

Immanuel Presbyterian Church, Witherspoon Hall
252 E 22nd St, Tucson
Contact - Diane Zimmerman 520.664.5070

Jul 9th - Prescott VE Sessions -- 5:00 PM

Prescott Public Library, 215 E Goodwin-second floor, Prescott
Contact - David Erlach 928.239.1083
No Walk-Ins / Register or Call Ahead

Jul 19th - Green Valley ARC -- 1:30 PM

Green Valley Fire Dept HQ, 1285 W Camino Encanto, Green Valley
Contact - David Bowen 520.526.2104

Jul 17th - Thunderbird ARC -- 6:00 PM

Northwest Christian Academy School, 16401 N 43rd Ave, Phoenix
Enter Gate 9, Room 423
Contact - Walter Reinert 602.668.7804
No Walk-Ins / Register or Call Ahead

Jul 19th - Oro Valley ARC -- 5:30 PM

Pima Community College, 7600 N Shannon Rd, Tucson
Contact Liaison for Room Location
Contact - David Beauchesne 831.345.3308

Jul 20th - MCC ARC KM7CC & East Valley VE Group -- 10:00 AM

Mesa Community College Bldg TC50, 1833 W Southern Ave, Mesa
Contact - Ray Vasquez 602.363.4207

Jul 20th - West Valley Electronic Club -- 9:00 AM

The Shack, 11115 W Nevada Ave (111th & Nevada), Youngtown
Bring FRN, pencil & pen, and \$15.00
Contact - David Morrill 623.680.5011
No Walk-Ins / Register or Call Ahead / Limited Seating

Jul 27th - Superstition ARC -- 10:00 AM

Mesa Public Library, Saguaro Room, 64 E 1st St, Mesa
Contact - Matt Churchill 602.739.6496

Jul 27th - Arizona ARC -- 10:00 AM

American Red Cross, 4747 N 22nd St, Phoenix
Contact - Gary Hamman 602.996.8148
No Walk-Ins / Register or Call Ahead
Pre-Register Required by the Thursday before session





Beginning DXing, Part II

Larry Loen, WO7R

Last time, we covered the very basics of DXing. Here, we talk about rigs and antennas and how to DX well without spending the big bucks.

What to Buy

“What to buy” is as individual as the DXer. But you might not want to spend money on a big station when you’re getting started.

The Radio (the “rig”)

You can spend just about any amount of money on an HF rig. However, the newcomer is usually best served by starting out more modestly. Any basic HF rig that is even 15 years old can be a decent starter rig. Ask CADXA members for advice. You’ll get a lot of it if you ask, but they can help you evaluate what’s out there. The main thing is to be very sure the radio can work “split” – that is, listen on one frequency and transmit on another. Rarer DX stations tend to work this way. Almost any HF radio 15 years old or newer will work split.

The Antenna

Here again, it probably pays to start out modestly. Simple wire antennas (antennas consisting of wire and little more) can get you going. Popular choices include a so-called “fan dipole” for 20 and 40 meters (with an antenna tuner, you can also get 15 meters), a G5RV (multi-band antenna with an antenna tuner), a Windom (which is often actually an offset fed dipole), and many, many more.

The most basic wire antennas are good to start with because: 1) they can be assembled very cheaply yourself, 2) you don’t need fancy test equipment (a basic SWR meter can be used to “trim” them to resonance), 3) mistakes, if any, are cheap to remedy, 4) most require just a single support, 5) many can be put on the air in a single afternoon by a beginner, and 6) most don’t require extensive radial systems (a set of wires on the ground or elevated that connect at the base of the antenna). Radials aren’t necessarily that big a deal, but avoiding them at the start will save time and energy.

Antennas I got by with in the early days included: A 40 meter dipole with an apex at 25 feet, a G5RV, a commercial vertical

CADXA Continued from Previous Column

with an inadequate radial system. This last was a poor antenna, but it worked “good enough” at the time. And, I had enough fun working what I could. When I ran out of fun stuff to do, there was ample time to learn about better antenna systems.

What I have today is far different, but I have also been DXing a long time and I can both spend more money and successfully deploy more complex antenna systems.

How to Substitute Skill for Money

It is certainly true that if you spend big money, you’ll eventually get big results. I now have the 70-foot tower with a rotatable, multi-band Yagi on top of it. I have a powerful amplifier when I need it to boost my signal. All of these are “force multipliers.” That is, I can work more DX in the same amount of time than someone with the same level of skill can work at a more modest station.

While life does favor the big station, it favors those with skill, too. If I had no skills and the same station, I’d work a lot less DX. I didn’t buy the big station until I was ready. Most of us do the same. It’s easy to spend a lot of money and not get what you think you should. Get the skills first and then the money really helps.

A great DXer I met, the late WB2V, came to my town and put up an extremely modest station in his apartment. With an indoor antenna and 100 watts he was working DX I could not touch. How? He knew a lot of “tricks” to get rare DX, especially in pileups. So, I asked him how he did it, and he showed me how to work a pileup. My score forever improved. Skill matters, too.

Make the most out of a modest station. Each 2-dB improvement in your signal (yes, you can get this even with a modest setup, at least a couple of times) will net you more stations with the same skill.

Get on digital modes like RTTY and PSK (many DXers don’t and the pileups are often more manageable or nonexistent).

FT8, the newest digital mode, is very popular and you can work a lot of DX with a modest station.

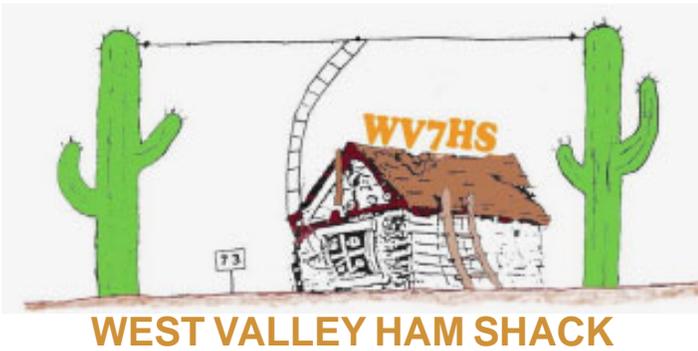
Get your Extra Class license (many DX stations avoid the U.S. General Class bands and it helps not to compete with the many U.S. amateurs that can’t be bothered to get the Extra Class license).

Learn CW (Morse Code). A lot of DX stations still love CW and, more importantly, this is a place where skill can win. A lot of SSB pileups are really just power games – if you don’t have the power, you have little chance of winning whatever your skill level. CW is almost always about skill in the end. The modest station usually has a chance in there somewhere. This skill is work to acquire, but all DXers that really want to succeed learn to do so.

Continued Next Column

ADAW

West Valley Ham Shack Museum



WEST VALLEY HAM SHACK

The Shack still has lots available from the auction held earlier this year. Our website lists 'Auction Closeouts' and 'eBay auction items' to choose from. Many the items are Hallicrafters and include receivers, transceivers, and other radio-related equipment. EBay auction items include more specialty and hard to find items. Go to the website to browse: westvalleyhamshack.com.

Our hours have changed. We are now open from 09:00 a.m. to noon, Tuesday through Saturday. Classes are still held mostly on Mondays when the facility is normally closed. Visit our website for the most current information about open hours and events.

The main entrance to the building now has a ramp, making entry easier and safer. Some other changes to improve air conditioning and heating are also ongoing. The modifications should result in the facility being more comfortable when you visit. Temporary access restrictions, if any, should appear on the website.

We had some issues with our repeater's duplexer, and that required maintenance by the local manufacturer. It was down for a few days, but by the time this newsletter is published, it should be back up and hopefully at full power. If you are in the NW valley, give it a try. Access: 441.775+/100.0 Hz

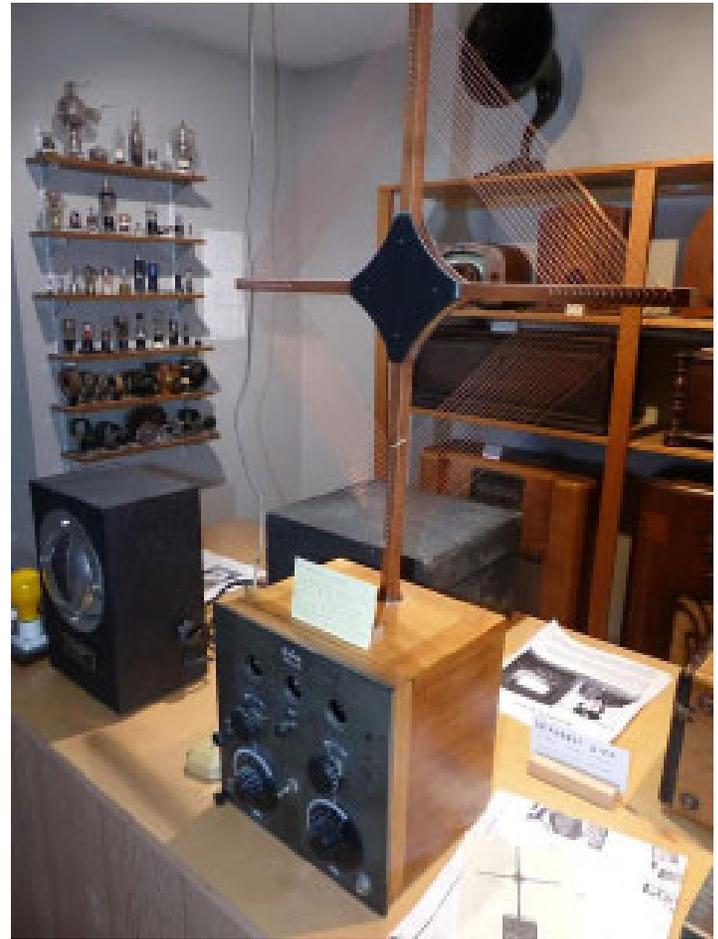
VE testing - Saturday, July 20th, from 9:00 a.m. to 11:00 a.m. Please call David Morrill 623-680-5011 to preregister for your exam(s).

Do you have a piece of radio gear that is not working, and you would like to get it operational? The Shack may just have what you need to get it working. At the facility you can do the repairs or modifications yourself or with the assistance of another Shack member. You can use the test equipment and any available parts, and there are many parts and supplies to use. You may not have to send your equipment off for repairs or purchase items. Fix it or build it here.

The July class schedule is still being planned. Check the website for the most current information. Don't forget to preregister for classes. Use the link on the website to register.

Be sure to check The Shack Museum when you visit. Some very interesting history on display. See pictures nearby.

Have a great month!



For Sale / Wanted



LOOK!
Great Deals!

For Sale

For Sale (New Lower Price!) - "The Dominator" 6 meter, 5/8 wave vertical antenna. Made like a tank in Italy by SIRIO. Is in perfect condition in Tucson. \$50

Contact Richard Bruns, K7VQ at d_brunz27@yahoo.com

For Sale - From the Estate of Doug Heller, KE7NF

ICOM 7200 HF/50MHz 100w Transceiver - Like new condition \$750 obo - bit.ly/45GoCo4

ICOM 7300 HF/50MHz 100w Transceiver - Like new condition \$900 obo - bit.ly/4bcJNiv

Palstar Tuner # AT2K - Like new - \$400 obo - bit.ly/3zbAHFz

MFJ Intellituner #MFJ998 - Like New \$400 obo bit.ly/3xrZrZw

Miscellaneous items for sale at google photos link here: bit.ly/3zeQNhF Make Offer

All reasonable offers will be considered!

Contact: Kevin, K9NTZ at 317.523.9909

The **West Valley Amateur Radio Club** has radios and ALL kinds of supplies available for sale through the club. We get some old equipment that won't sell that will be added to the items for free. Contact: George Forsyth, AA7GS - aa7gs1@gmail.com

Wanted

Looking for a set of "Spider" antennas. Contact John, K2AOP at k2aop@arrl.net or k2aop.7@gmail.com or by text to 480.991.0124



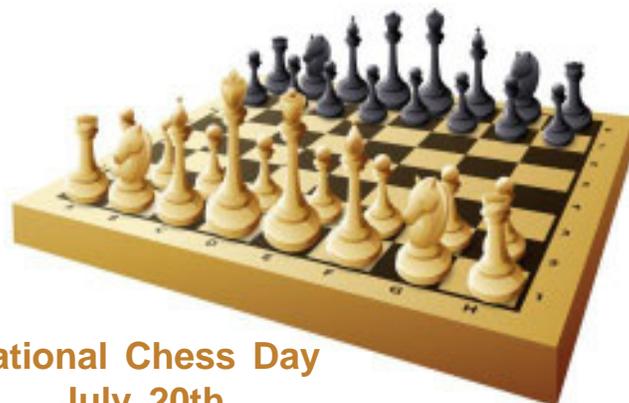
Public Service Calendar

Maricopa County Emergency Communications Group Events

EVENT	LOCATION	DATE
FLAG2GC	N of Flagstaff to Grand Canyon	08/03/2024
Mogollon Monster	Christopher Creek to Pine	09/07/2024
AUXCOMM Class Interest	TBD	12/31/2024
Comt Class Interest	TBD	12/31/2024
RADO Class Interest	TBD	12/31/2024

To sign up for an MCECG Public Service Event: www.mcecg.net

For information, contact Dennis Bietry - KE7EJF at 602.274.3732 - email, ke7ejf@cox.net, or contact the Event Coordinator for the event.



National Chess Day
July 20th

Help Needed

I am a blind ham with other physical disabilities that are worsening. I am experiencing issues with muscle tremors and decreased hand strength. After an incident over the weekend, it is becoming clear that my ability to maintain my station is in doubt at this point. Issues I need to address involve some antenna work, grounding, and installing a VGS-1 speech board in to my Kenwood TS590SG. I live in Peoria, and I could definitely offer food and maybe some compensation. If you're interested, please contact me directly.

Thanks and 73,
Darrell Hilliker, NU7I, WAS
darrell.hilliker@gmail.com



AMATEUR RADIO SERVICE DEMONSTRATION STATION

June is typically a quiet month for us as we brave the heat and prepare for field day. We will be operating once again from air-conditioned space thanks to Darren WB1LOV. We are hoping to get many members to participate this year. I continue to be reminded that this is not a contest but a learning event and every year I continue to learn more as I participate. Sadly, I have yet to try any digital modes but perhaps this year I will.

Thanks to Jerry K7GGR for equipping the Tony antenna back with a new frame. This really looks good and fits well and will allow us to get many years out of this antenna. Congratulations on the new call Gerry!

Thanks to Joe - KC2J for handling all of the various website activities. Thank you, Joe!

Our technician level classes have ended and we will administer testing at our next VE session. Thanks to David - AK2L for running the class and administering all of the activities.

The OVARC Hamfest is not too far away. I hope you have November 9th circled on your calendar. It sounds good to think about how cool it will be early in the morning on November 9th. We are looking forward to seeing you. Of course, we have a “cool” Hamfest coming up in Flagstaff in July which I will plan to attend.

Thanks to Fred – W2HZ for his quick attention to a few donations recently. Every donation we get goes right to the club’s table at the Hamfest so if you have anything amateur radio related, we would love to hear from you.

Stay Cool and June and practice your skills at Field Day.

73, Steve – W1SR

ADAW

CARL volunteers get to introduce school groups and families to amateur radio every day in the Arizona Science Center. Essentially, CARL is a youth recruitment department for all the other clubs in ARCA. We focus on people, not radios. So don’t expect this monthly report to sound like the rest.

CARL Supports “Misfits”

CARL believes that young people with the technical “knack” can find encouragement in ham radio. Maybe they feel like misfits among their peers. But they find they are perfect fits for science, technology, engineering, and math (STEM). A ham license can guide them on their technical path. CARL helps those young “misfits” find their rightful places in life.

We love to share stories of people’s lives improved by radio. This month we bring you the fourth installment of “A Vintage Ham Story,” a young boy’s tale of discovery.

Last month, young Sam (a fictional character, not me) explored Morse code on the CB walkie-talkies he got for Christmas. This month, he and his buddies graduate from walkie-talkies to CB base stations. Sam’s story might even resemble your own – or maybe your grandfather’s – origin story. So, for your reading pleasure ...

A VINTAGE HAM STORY

Bigger is Better, Right?

The first thing to explore with any two-way radio is how far it can talk. The second is how you can extend that range.

“Wouldn’t it be cool if we could talk all over town? Down to the Piggly-Wiggly, up to the pharmacy... all over? What if we could put a radio on our bikes and talk while we rode?” suggested Johnny.

“We’ve already climbed on the roof or up a tree with the walkie-talkies, and that helped the range. We nearly doubled our range just by getting the antenna higher. But a real base station with a rooftop antenna would be way better. Besides, we could have more transmit power and so could talk farther,” said Kent.

“Yeah, that would be neat. We’ve already talked with people with radio stations in their homes. They told us that you can only talk as far as you can hear. The real key is a big antenna that

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can hear farther. What if we could put one on our homes” said Sam.

“I think a two-way radio station in my bedroom would be too cool!” chimed in Kent.

“I wonder how far we could talk to these walkie-talkies from a real base station,” pondered Johnny.

“I don’t know. But I’d really like to find out,” said Sam.

And so the search began for real CB radios and antennas.

Sam was the first to find a radio that someone gave away. It was beat up and old, and it got hot from the vacuum tubes inside, but it worked.

It had six crystal-controlled channels. And it came with a mobile whip antenna.

Sam didn’t know much about antennas, how they worked, or how to connect one to the radio. He’d read something about a special wire to “coax” the signal out of the radio to the antenna, but that didn’t make much sense to him.

So he just stripped the ends of some bell wire, pushed one end into the antenna jack and wrapped the other end around the bottom of the whip antenna. He leaned the whip against his bedroom wall and gave it a try. He talked with a few people, but not very far away.

<< Editor’s note - If possible, please insert photo vintage CB radio.jpeg here >>

One guy patiently explained that Sam’s antenna was all wrong and how to fix it.

“You really need to get some coaxial cable, 50-ohm RG-58, or even better, the larger RG-8 stuff. Get rid of that whip unless you mount it on a car bumper. That whip without a car under it is only about as good as your walkie-talkie antenna. Since you’re on a base station, I recommend you get a simple ground-plane antenna for your roof,” he suggested.

It wasn’t long before Sam got his mom to take him and his lawn-mowing earnings to Radio Shack. Sam bought a basic ground-plane antenna and 50 feet of coax. Within a week, he had the antenna mounted on the corner of his roof and the coax cable fed through his bedroom window. He got a CB radio license, too. KAPV-3783, a mouthful of a callsign. But no one used callsigns on CB anyway, so he didn’t say it often.

Funny thing though. Sam couldn’t hear the walkie-talkies much farther away. He discovered that bigger wasn’t always better. He could only talk as far as he could hear. When the channels were noisy, the better antenna heard more racket. And the racket covered up the weak walkie-talkies.

Johnny soon followed suit and got his own CB station. Sam helped him set it up in his bedroom closet. And then Sam and Johnny chatted with one another after school.

Their radio stations introduced the boys to other nearby kids from school who had CB’s at home, and some older kids who

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had them in their cars. Sam enjoyed the new on-air community. But he was also a little frustrated by the rude behavior, the constant interference, and the strong skip signals that could never hear their call. CB radio seemed to promise so much, yet deliver so little.

So Sam daydreamed about a two-way radio that had clear signals, civil behavior, and he could actually talk far away. A radio that could include convenient handheld units with reasonable-sized antennas and could talk distances farther than a neighborhood or two away. He didn’t know it, but he was priming himself for the next chapter of his radio experience – ham radio.

What’s Your Story?

Tell us your ham radio story. Did you get the radio “bug” through CB, too? If so, what caused you to make the leap from CB to ham radio? How did that leap affect your life’s trajectory? And what are you doing with radio today? Drop us a line at w7asc.sked@gmail.com.

Volunteer Teachers Welcome!

CARL has volunteer opportunities for hams with the knack to connect with young people. With a VHF/UHF FM station at home, you can be the ham to thrill our guests on the air. Or you can formally volunteer with the Arizona Science Center to teach and encourage visitors face-to-face in the W7ASC radio shack.

Learn more about CARL and our mission by looking up “W7ASC” on QRZ.com. That page has a link to a volunteer application to the Arizona Science Center if you want to join us. (If you apply, be sure to note that you want to volunteer at the Ham Shack.) Bring any questions to me at my e-mail address, below.

73 de N7INV Sam
w7asc.sked@gmail.com



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NADXA Continued from Previous Column



**FLAGSTAFF HAMFEST - Saturday, July 20, 2024
DON'T MISS THIS ONE!**

The NORTHERN ARIZONA DX ASSOCIATION is a DX club and so much more. Our Officers are: President: W7KFT, Lou Arminio; Vice President: NF7E, Bob Wertz; Secretary: KR7RK, Keith Schottman; and Treasurer: W7SS, Ken Held. Our monthly meetings are on the first Tuesday of the month, at 6:00 p.m. MST. We use Zoom for our regular meeting and we also have a casual weekly rag chew on ZOOM at 9:00 a.m. every Wednesday where we talk about club projects, equipment, problems, or whatever. Everyone is welcome to attend. E-mail president@nadxa.com for the Zoom links. We would really enjoy having you join us! For more details check out our club website – <https://www.nadxa.com/>



Be sure not to miss Dave Casler in person, KE0OG as he presents to the “Oggies World Wide” right here in Flagstaff, Arizona. He is one of ten speaking presentations scheduled so far including President and Founder of QRZ.com, Fred Lloyd, AA7BQ



DX IS

This list is a good first step to finding, working, and confirming many DX stations that will be out there for you in July. You can look them up on QRZ.com, their personal web pages, and their spots on the clusters to find out more about each of them, including what bands, modes, frequencies, times, and even some tips on where and how to confirm contacts. As always, this list is likely to grow. Check for current updates at: <https://www.ng3k.com/misc/adxo.html>

Herb Goodluck, N7HG, from the Navajo Code Talkers will have a display.



Additionally, ARRL will have two Section Managers and a QSL card checking booth. ARCA will be announcing the 2024 Ham of the Year at their annual meeting. The American Red Cross, a Food Court, Inside Vendors, and VE Exams – All this in the air-conditioned comfort of the Sinagua Middle School, 3950 E Butler, Flagstaff, AZ. Talk-in on the 146.980 repeater, minus offset, 162.2 PL.

<u>Start Date</u>	<u>End Date</u>	<u>Location</u>	<u>Call Sign</u>
2024 Jul 01	2024 Jul 12	Maldives	8Q7EC
2024 Jul 02	2024 Jul 15	St Pierre & Miquelon	FP
2024 Jul 04	2024 Jul 18	Reunion	TO7PX
2024 Jul 10	2024 Jul 17	Cyprus SBA	ZC4MK
2024 Jul 20	2024 Aug 01	Lord Howe I	VK2
2024 Jul 21	2024 Aug 05	South Cook Is	E51

CONTESTS & SPECIAL EVENTS

The ARRL is sponsoring only one contest during July 2024, so don't miss out on it. July 13-14 IARU HF World Championship

The ARRL web page with links for additional information is: <http://www.arrl.org/contest-calendar>. Also, check out the following website for lots of opportunities – <https://www.contestcalendar.com/>. This one has several calendars and includes contests that are not sponsored by ARRL.



Of course, there will be the traditional Hamfest Tailgating parking lot with food service and Porta Potties. Handicapped Parking with easy access to the inside will be available. There will be shuttle service between the inside activities and the tailgater area. This service will run constantly throughout the event. Thanks to your generous sponsors we expect to give away about \$3,000 in FREE door prizes. One ticket FREE with

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entrance and additional tickets can be purchased. You must be present to win. We expect to give away more than we collect at the entrance. This event has the biggest grand prizes of any hamfest in the state – Yeasu FTdx-101D, Yeasu FT-710 AESS HF Rig, Comet CAA-500 SWR/Impedance Analyzer. Tickets will be available at the event. You Do Not Have to Be Present to Win.



This event is presented by Northern Arizona DX Association, in association with ARRL and sponsored by The Amateur Radio Council of Arizona. <https://www.flagstaffhamfest.org/>



Eric Guth, 4Z1UG, from QSO Today in Israel, interviewed our very own boB, NF7E, and is featuring him on his podcast #508 - <https://www.qsotoday.com/>. boB is a contributing Editor to this newsletter and is one of the founders and a super active member of NADXA. He was instrumental in starting the ever-popular annual Route 66 on the Air event. He placed 1st in this year's 7QP for Coconino County and 2nd in all of 7-land low power SSB. He has worked every possible DXCC entity there is. He was 2022 ARCA Ham of the Year, has close ties to the Navajo Code talkers, and so much more. Listen to the podcast for more details and amazing stories from him. (We spell his name backwards to differentiate him from others that may spell their name Bob.)



boB's Corner

Flagstaff Hamfest: Bigger and Better This Year!

Our club is thrilled to announce the upcoming Flagstaff Hamfest. We've been hard at work making exciting improvements.



Enhanced Facilities:

* New Tailgate Area: This year, we've added a brand-new

tailgate section where you can explore and discover hidden treasures.

* Spacious Parking: Our larger parking area is now conveniently located closer to the main inside vendor area.

* Shuttle Service: Attendees won't have to walk long distances! We're introducing a shuttle van to transport you between the parking lot and the tailgate area.



Door Prizes Galore:

* We're thrilled to share that we've amassed an impressive \$2900+ in door prizes!

* Selective Cup Door Prizes: Here's the twist: You can choose your destiny! Drop your ticket into the main tumbler for a chance at many door prize, or opt for specific cups with items you desire (like that Bioenno battery and charger).



Local Artisans and Ham Suppliers:

* Explore a variety of local arts and crafts booths alongside our fantastic ham suppliers in the inside vendors' common area.



Something for Everyone:

* Whether you're a seasoned ham radio enthusiast or a curious newcomer, there's something here just for you!

* And guess what? We've even ordered cool weather especially for our valley residents.

Mark your calendars, spread the word, and get ready for an unforgettable Flagstaff Hamfest experience

More information on our club website – www.nadxa.com and the Hamfest website – <https://www.flagstaffhamfest.org/>

We hope to see you on July 20th.

73

boB, NF7E

NADXA Contributing Editor

73 & GUD DX,

Ron Gerlak, KG7OH

Northern Arizona DX Association

NADXA Editor



The Kachina Amateur Radio Club is a 501C3 organization which supports communication, electronics, and radio in the northeast part of Arizona, including the White Mountains.

The club has three major objectives:

1. Training and education by preparing the community to obtain licenses or upgrade licenses by holding regularly scheduled classes and VE test sessions;
2. Community service by providing communications services for events or emergencies as needed;
3. Advancing technology and bringing technology and communications to the White Mountains.

As the season has turned to better weather, we have some upcoming events. The club is working on site and tower work for a Navajo link system that will provide communications support in the area. Current functional sites include Brookbank, Clay Springs, and Chevelon. Excitingly, Cooley Mountain is coming soon. The link will be complete in Holbrook.

The Kachina Amateur Radio Club sponsors a free two-day class to assist those interested in passing the Technician class FCC license exam. The next class is scheduled for July 27th and 28th for the testing date on August 3rd, 2024. We will also be assisting with the VE testing during the Flagstaff Hamfest on July 20th, 2024.

Please join us at our next monthly meeting on July 9th, 2024, to learn more about us and how to get involved.

For more information, including license classes and testing registration information, visit our website at <https://kachinaarc.org/>.



Club Meeting is Tuesday, July 16 at 7:00 PM

The Charles K Luster Building is due to reopen in July, following its refurbishment since last January. If that comes true, then July's meeting will be back on 640 North Mesa Drive, Mesa. Otherwise, we will meet on Zoom. Please watch for news on our website, SuperstitionARC.org and on our Wednesday 8:00 PM nets on the 147.12/449.60 repeaters.

Superstition ARC VE Testing Every Month Downtown Mesa

SuperARC, the short name for our club, started a new VE Team for the second time in its history. The first VE Team started operations back in 1986. Sessions were conducted first under W5YI-VEC, then under ARRL VEC. It conducted tests once every three months. The Scottsdale ARC also tested once every three months and between the two clubs, there was a test two months out of three of every quarter in either Apache Junction or Scottsdale.

Fast forward to today. SuperARC's VE Team, called SARCVET, is coordinated under the Laurel VEC. It tests on the last Saturday of the month at 10:00 AM, every month in Mesa's downtown Public Library. There is no fee to take a test.

For more information about Laurel VEC and Mesa's TWO Laurel VE Teams, our SARCVET and SunLife ARC's NOMADS VE Team, please visit <https://LARC-VEC.org/>. You can search for local exams by your ZIP Code.

The left-side menu on the site also has much useful information, much of it found in PDF documents. Please review at least from the FAQ down.

Superstition Superfest Planning *by Eve, W7EVE*

The Superstition ARC SuperFest committee has a new organizational framework to coordinate resources and have clear roles and responsibilities for our volunteers. This will allow for a more enjoyable experience for volunteers as well as the attendees.

With this additional organization, we will have the opportunity to showcase the SuperFest as a Hamfest and Electronics Show, with the goal of attracting not only new and existing amateur radio operators but also non-Hams to introduce them to the hobby.

Of course, we can't forget the prizes! Grand prizes have been purchased, and they are not to be missed: Prize #1 is Yaesu FTDX-10, Prize #2 is Kenwood TH-D75A HT, and

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Prize #3 is Yaesu FTM-500DR. The SuperFest website has been updated and grand prize tickets are available now. <https://store.superstitionarc.org/tickets>

Arizona Desert Aire Waves History

I began as your column editor in December 2015. ADAW.org has a list of previous issues going back to 2008, when there were only four clubs. Superstition ARC first appeared in the Arizona Desert Aire Waves in October of 2015. There are now 24 clubs whose members receive ADAW.

There is one thing about having our club in ADAW: I can look in on the back issues and see since 2015, who the Board and Officers were. I was the secretary of the club in 2015. That was the year that Jane WB7FDF turned 100 ahead of Thanksgiving Day. Jane was once the President, as was I, but there are no back issues online that I can look at to see when we were the president!

Jane served on the Board and was our hostess during Field Day for many years during the latter part of the 20th century/

President's Corner *by Steve, KB7KWK (June edition)*

The President's Corner is now on the website as the Webmaster crew transfers information from our Communicator in PDF to HTML web pages that can be searched. — WB7C

Hello fellow club members, I hope all is well. I want to start off this article by thanking all of the Tech crew. They have been spending a lot of time on the repeaters and the tower projects at both the Stone Castle site and up at Lost Eden.

As most of you know, we have been trying to go full duplex with the repeaters. We are having some trouble with this and we are not sure why. There is a squelch noise on the signal when we transmit from UHF to VHF that we can't find. We suspect that it is in the controller but we are not sure. We have phone calls into Arcom to see if they can offer some help. If we cannot figure this out in the next week or two, we will go back to the way it was before, and revisit full duplex at a later time.

As for the Stone Castle tower, we are waiting to get some parts for the base. Some have to be fabricated so we can adapt the new tower to the old base. This tower will be 45 to 50 feet tall. Then the coverage of UHF should come back. Stick with us though, it is starting to get, well it is already, hot. This project may be put on hold until Fall.

The club received a donated very nice Yagi antenna that the team will try to get installed at the Lost Eden site in time for Field Day. If things go right, that will be a nice addition to Field Day operations. Dan, KC7MSU has purchased and donated a rotator and controller for this antenna. The Team is planning a trip to Lost Eden on June 15th to do the installation, so that it

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is ready a week later for the event.

Speaking of Field Day, I hope to see a lot of people this year. Last year was a blast. There were no fire restrictions because of all the rain in the weeks before and we sat around at night and told a lot of lies. It looks like this year will be different. There are already fire restrictions in the area. So unless it starts raining soon, there will be no open fires. We will still sit around and lie to each other though, so don't miss out on all the great fun, and that includes making contacts. Everyone can participate. Oh, and we will have some great raffle prizes as well.

Following Field Day, on July 13th the club will have the annual get-together at Organ Stop Pizza in Mesa. This is one of the club's most attended events and we have great fun. There will be awesome organ music and there will be some awards given out to deserving folks. The event starts at Noon and goes to 2:00.

Please take time to answer the survey in your email to let us know how many people will be in your group. This is so that we can let Organ Stop know how many people will attend so that they have enough food for everyone. The Cost is \$10 per person, and that does not include drinks. I hope to see a lot of folks there this year.

Several club members have been asking me when we will be back at the Charles K. Luster building for our meetings. The last time the City of Mesa contacted me, they told me that we are still on the list for the room and that they are on track to finish the remodeling at the end of June. So we should be back there for our meetings in July. However, I know how construction goes, as I deal with it all the time. It could change. If so, we will have zoom meetings until they are ready. We have no other place to meet and I do not want to spend more money on the Rec center. Of course, I will let everyone know if there is a change for July.

73 for now and I will catch you on the air.

Deadlines to Include Your Input in Our Publications:

The Club publishes this column and the club Communicator newsletter. We welcome your input to both publications.

The Communicator: Please email Editor@SuperstitionARC.org with your input by June 27th. The Communicator will publish to club members in early July.

This publication: Please email WB7C@SuperstitionARC.org with your input by July 5th. The August ADAW will publish to club members in late July.

73, Larry Kuck WB7C for SuperARC's part of this ADAW.

Comparing the Laurel Versus the ARRL VECs

Fred Atkinson, WB4AEJ

Our radio club recently became a Laurel certified VE (Volunteer Examiner) team. I spoke with Diane Zimmerman, AA3OF (the Laurel VEC (Volunteer Examiner Coordinator) National Chairman and the coordinator for call regions six and seven). After discussing with her the advantages of choosing to become a Laurel VE team, I made the pitch at our next club meeting.

Laurel is one of the top three VECs in the nation for the number of exams given. They are neck and neck between number two and three with the W5YI VEC. Laurel is an all volunteer organization. Unlike some of the VECs, they are a national VEC (versus a regional VEC which only covers certain parts of the nation).

I raised these issues in comparing Laurel with ARRL.

With the Laurel VEC, the exams are free. It means that the examinees do not have to pay to test. Nor do the VEs have to collect money only to send it to the VEC (less work for the VEs). This is a big advantage over the other VECs.

My past experience with the ARRL VEC is that it takes several weeks for successful examinees to receive their new licenses or upgrades. Eight years ago, I helped a friend prepare for his license exam. He took his exam from an ARRL VE team. He passed it the first time. He advised me it took nearly a month before he received his technician class license. After speaking to a couple of ARRL team leaders in the area, one said almost a week. The other said ten to twelve days.

Successful examinees with the Laurel VEC routinely have their licenses in a matter of just a few days. We recently tested and passed four technician class applicants. One took and passed his general as well. They took the exams on a Saturday. All four of them received their licenses on Tuesday (three days later). I am told that this is typical for applicants taking their exams through the Laurel VEC.

If you are already certified as a VE with any of the other thirteen VECs, Laurel will certify you as a VE gratis. Every VE applicant (already certified with ARRL) that I have submitted to Laurel was certified in less than twenty-four hours. Our club now has eighteen certified Laurel VEs on our team. ARRL typically takes weeks to process and approve an applicant for VE certification.

These three major advantages alone were enough to sell me. And I had little difficulty pitching it to our club. It was easy to convince them. So (with Diane's help), we became certified as a Laurel VE team.

One of the first issues was finding a place to give the exams. I called the Mesa Public Library and asked if we could arrange to use one of their rooms for VE testing once per month. One of the first questions I was asked was if any money changed hands. They had a strict policy of not allowing the exchange of funds during any activities conducted on the library

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premises. Since Laurel does not charge for exams, I was able to say that we do not. So we were given the green light. If we had gone with ARRL, they would have turned us down immediately.

We recently gave our first exam on a Saturday. It was a very successful first session. We had five applicants. Four passed their technician exams. One of those also passed his general. I submitted the results of the exams electronically to the Laurel VEC on the same day as the exam. On Tuesday of the next week (a mere three days after the exam), the four successful examinees received their licenses. We were able to include their names and call signs in the next issue of our newsletter (which published about a week after the exam session was given).

If you already have a VE team or are considering becoming a VE team, you should seriously consider getting your team certified under the Laurel VEC. You can find out more information about the Laurel VEC on their Web site: <https://larc-vec.org>. You can also search and find a scheduled Laurel exam near you on this site.

Contact the Laurel coordinator for your call region (Arizona is in region seven) to discuss or arrange for your radio club to become a Laurel VE team. Select 'Officers, Contacts' in the menu on the left side of their home page to find contact information for your region.

In my humble opinion, Laurel is the better choice.

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Superstition ARC Repeaters

<u>Output</u>	<u>CTCSS</u>	<u>Links To</u>	<u>Mode</u>
147.120 MHz +	162.2Hz	449.600*	FM Only
449.600 MHz -	100.0Hz	147.120*	FM Only
448.275 MHz -	100.0Hz	WIRES-X	Fusion

* Also Links to Echolink Node: **WB7TJD-L**

* Also Links to AllstarLink Node **52987**

Club Nets

Morning Drive Time Net: Mon-Fri, 7:00-8:00 AM - Trivia

Club Net: Wednesdays, 8:00 PM - Discussion, Elmer Q&A.

Mesh Information Net: Thursdays, 8:00 PM - Net control
Steve, KB7KWK

Fusion Confusion: Monday & Friday, 8:00 PM - 448.275

10-Meter Rag Chew: Thursdays, 8:00 PM, 28.465 MHz USB

SuperARC Merchandise Store

<https://superARC.big3creative.com>

Club Membership is open to anyone with an interest in Amateur Radio. Visit: <https://superstitionarc.org> for more information.

Superstition SuperFest

The Superstition SuperFest is held on the first Saturday of December.



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TX and one for RX), while the link radio is a single UHF Motorola CDM radio for half duplex linking. The 2m duplexer has a diplexer strapped to the top for 2m repeater operation as well as 70cm linking capability.

Radios – Three Motorola CDM radios

Auto-patch – Dependent on if it is linked and to which location.

Antennas – Comscope DB222 VHF, 2-Bay Omni, Exposed Dipole, Vertical polarization, 5.1 dBi gain (a pair of phased folded dipoles for directionality). Diamond X50 (2m & 70cm), Vertical polarization, 2M 4.5 dBi / 70cm 7.2 dBi gain

Power / Redundancy – Two X2Power, 12V, 76AH, AGM Deep Cycle Batteries

Controller - The radios are all controlled by one Link Communications Repeater Controller which allows all the radios to be interconnected as required.



Tech Committee

Please report any site problems to the techcom@w7ara.org
The ARA Tech Committee is seeking additional climbers for ARA tower work. If you are interested, please contact Dennis Campbell at ae7wu@w7ara.org

Greens Peak

The Tech committee recommended and the Board approved two 120Ah batteries for the Greens Peak site to replace the existing batteries. The batteries should be good for about 24 hours of intermittent use of the site.

A VHF Super Stationmaster Omni antenna will replace the

General Meeting Programs

Join us at our next General Meeting in person or virtually. ARA general meetings are held on the fourth Thursday of the month. Our in-person meeting is at the Denny's at Priest and Broadway in Tempe. If you can't join us in person, our ARA virtual meeting is the next best thing to being there without the food.

The Thursday, July 25th, program will be James, N7ELL presenting ARRL Field Day (FD 2022-2023)

Follow the link for more meeting details. <https://www.w7ara.org/mtg/Meetings.aspx>



ARA Portable Repeater

June 8, 2024 – An ARA team of Marty, James, Brian, Rick and Gene traveled to Flagstaff to check coverage of the VHF portable repeater for the Flagstaff to Grand Canyon bike ride (flag2gc.com) on August 3rd. The race route has changed and an updated coverage test was needed. The coverage test determined a second ARA UHF portable repeater will need to be used for the event.

The ARA VHF portable repeater can operate on one of several frequencies, 145.17, 145.19, 145.21, and 145.23 MHz with a negative offset of 600 kHz and a PL tone of 162.2 Hz.

It is possible to link the portable repeater to multiple 70cm sites either through linking frequencies or standard repeater frequencies across the ARA repeater constellations widening or expanding the linked repeaters coverage area as necessary.

The VHF repeater uses two Motorola CDM radios (one for

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existing antenna when the weather permits access to the site. The repeaters remain operational.

Scottsdale Air Park

Dennis Campbell reconnected the Scottsdale AirPark VHF repeater to the Metro Link system on Sunday, June 9th by restoring the PL to the link. On the same visit he re-terminated the coax connector on the VHF link radio feed line that looked marginal to him on the last visit and improved the link signal greatly.

Shaw Butte

The Tech committee recommended and the Board approved four 120Ah batteries for the Shaw Butte site to replace the existing batteries. These batteries are good for about 48 hours of intermittent use of the site. This should carry the site through power outages. The challenge will be removing the old string which is excessively heavy.

Towers Mountain

The Tech committee recommended and the Board approved one 120Ah battery for the Towers Mountain site to replace the existing batteries. Each battery is good for about 12 hours of intermittent use of the site. This should carry the site through power outages before the generator takes over.

Membership

You can join the ARA to support these open repeaters! Membership is \$20 per year.

Membership info can be found at <https://www.w7ara.org/mbr/Membership.aspx> or email membership@w7ara.net

ARA UPDATED Repeater Frequency list and Repeater maps

https://www.w7ara.org/mbk/ARA_Frequencies.pdf

<https://www.w7ara.org/mbk/>



Greetings from the place where people like to go when it gets hot in the valley and school is out! With more than 400 miles of trails and back country getaways in the area, as well as lakes, reservoirs, and creeks, it's no wonder the roads to the Prescott area get busy. Lots of those wanderers who depend on their cellphone-like appendages for communications, directions, texts, and social media are shocked to find out that the coverage is minimal, no bars, no Wi-Fi, no nothing, nada, zero. No "expressions of gratitude" or "meditating good vibes out" with the selfie and Mother Nature background to their followers.... Oh my! FRS and GMRS radios are inexpensive to buy and work around the camps and trails, but lots of them are out there and trying to communicate on limited channels and limited power with all the non-adults running around and screaming.... Ham Radio just shines.

You can buy three or four different devices for GPS, mapping, tracking, SOS signaling, but not much communication ability. The right handheld transceiver can provide you with GPS, APRS (so someone can track your progress), texting, phone patch, and most importantly, voice communication! Nothing better than a human voice to talk you back down to the trail and back to civilization. Something to think about when deciding what kind of HT to buy. Folks don't hesitate to drop \$800 to \$1400 on a cell phone that is good for a few years, but hesitate to spend \$500 on a handheld that will do everything except cook you a meal. Think about it before you actually are in the spot where you wish you had bought it.

We have been challenged!!!! The YAVAPAI ROBOT RUMBLE 2024! Members of the YARC Youth Radio Club are throwing out the challenge to the YARC adult members to join in the competition. The Race Date will be set for sometime between October and December, mostly to give the adults enough time to catch up with the youth. For \$5 you can get the basic kit, the rules, and a schematic. The robots are battery-powered and have sensors that will follow a 3/4-inch black tape line track that is on a white-ish background. Robots must be less than 6" high, less than 5" wide, less than 8" long and have at least a 1/4" of ground clearance. Voltage must be less than 24VDC. The robots must be able to climb a 30-degree incline. The adults insisted on a "No Flammables" Rule, probably so they don't get burned! There will be three race categories, Youth Only, Adults Only, and Mixed Grand Championship. The basic kit comes with everything you need, but the youth are already doing modifications and testing and yes, there is such a thing as too much voltage/power and too much traction. Build

Continued on Page 23

ADAW



YARC Continued from Page 22

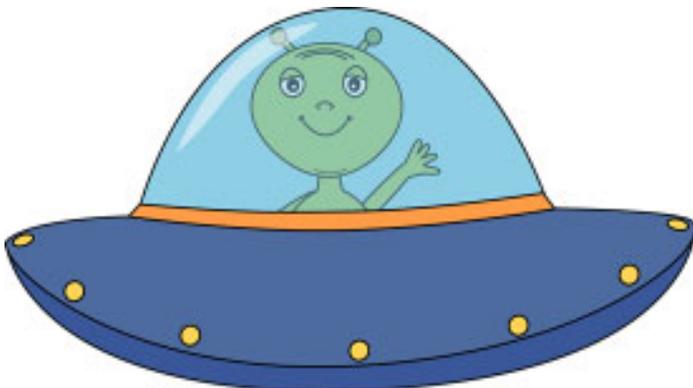
your own or buy your own it is up to you! There is probably a youth or two who, for a small donation (OK, a paid bribe) will assist you. But remember, they are in-it to win-it, so you may want to carefully observe the robot build. For more information, contact David, K1AN, via email at Dave@MyLaPaz.org. We may have created a monster, but it should be FUN!

Eleven years ago, on June 30, 2013, the Prescott based Granite Mountain Hot Shots lost nineteen members of the team when they were over-run by the Yarnell Fire. The fire environment and Mother Nature's weather created a unique situation that no one could have predicted or planned for. The Yavapai Amateur Radio Club was able to obtain a Special Event Call Sign, N7GMH, and began the following year, on June 30th, to run the Special Event Station, to honor the Granite Mountain 19 who made the ultimate sacrifice while protecting the town of Yarnell. On June 30, 2024, listen for November Seven Granite Mountain Hotshots, N7GMH, and get in the log. We have Hams from around the world paying tribute to those who gave it all. Please see the QRZ page for N7GMH for more information about the event. It is with respect and gratitude to the Granite Mountain Hot Shots and their families that we hold this event each year.

Be safe, Stay Healthy, Be Radio Active, and If You See Something, Say Something!

73,
W7YRC

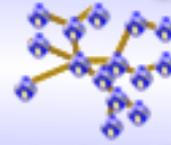
ADAW



*UFO Day
July 2nd*

No Reports Received

Arizona Mesh Organization

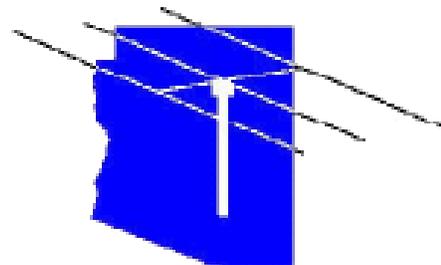


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CHAPTER 16

BARRYM.GOLDWATERARIZONA CHAPTER



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As we celebrate our nation's independence, let us remember our past leaders who lost their lives battling for the freedom we are all enjoying today. Happy 4th of July from everyone here at Ham Radio Outlet in Phoenix.

We will be closed on Thursday, July 4th in observance of the Holiday.

Now serving you at our Phoenix store:

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